

## Addolink® B

### Plastic Additives / PUR Additives

#### Description

Addolink® B is a standard chain extender / curative for the production of PUR hot / cold cast elastomers and of integral skin foams.

#### Chemical composition

1,4-Butanediol.

#### Typical properties

Active ingredient content:	min. 99.0 %
Appearance:	clear, colorless liquid
Density at 20 °C:	approx. 1.02 g/cm <sup>3</sup>
Flash point:	approx. 135 °C
Hydroxyl value (theoretical):	approx. 1245 mg (KOH)/g
Initial boiling point:	approx. 230 °C
Pour point:	approx. 19.5 °C
Solubility:	miscible with water, hygroscopic
Viscosity at 20 °C:	approx. 72 mPa·s
Water content:	max. 0.1 %

#### Application notes

Addolink® B is used as a chain extender / curative in the production of PUR ester and ether hot / cold cast elastomers and for integral skin foam. The reaction between Addolink® B and isocyanates leads to the formation of the hard polyurethane segments. The speed with which these hard segments are formed in the reaction mixture reduces the demolding time. Addolink® B also affects the physical properties of the finished product. It increases the material's hardness and improves the abrasion and heat resistance. Addition of Addolink® B depends on the demands to be made on the finished product and can be varied between 2 and 10 parts by weight



per 100 parts by weight polyol. As the pour point of Addolink<sup>®</sup> B is relatively high, temperatures above 22 °C are needed for satisfactory processing.

Before taking up production, please ensure that the material is in liquid condition (see storage stability).

### **Storage stability**

Addolink<sup>®</sup> B is hygroscopic and thus to be stored in a dry place. When Addolink<sup>®</sup> B is stored in firmly closed original containers at dry conditions at approx. 25 °C, a shelf-life of 30 months from manufacturing date can be expected. If stored at lower temperatures the product may thicken, become cloudy or solidify at the pour point. This process can be reversed by liquifying the product, e. g. for as short time at max. 50 °C. After warming and generally before use, the content of the container should be thoroughly homogenised, otherwise the extremely small water content of the product becomes locally concentrated. The containers should be resealed tightly after use to prevent contamination by impurities and exposure to moisture.

### **Packing**

Metal cans, contents 60 kg; metal drums, contents 200 kg; Plastic container, contents 950 kg.

### **Handling & safety**

Relevant safety data and references as well as possibly necessary warning labels are to be found in safety data sheet.

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